

BRODHEAD CREEK SITE
ADMINISTRATIVE RECORD FILE *
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. Report: Groundwater Development for the Borough of East Stroudsburg, East Stroudsburg, Pennsylvania, prepared by Moody and Associates, Inc., 6/71. P. 100001-100049.
2. Report: The Borough of East Stroudsburg Water Supply System and the Impact of East Stroudsburg State College on this System, prepared by R.K.R. Hess Associates, 3/81. P. 100050-100064.
3. U.S. EPA Potential Hazardous Waste Site Identification, 3/12/81. P. 100065-100065.
4. Report: A Preliminary Assessment of Brodhead Creek Coal Plant, Stroudsburg, Pennsylvania, prepared by Ecology and Environment, Inc., 6/10/81. P. 100066-100114.
5. U.S. EPA Potential Hazardous Waste Site Identification & Preliminary Assessment, 6/10/81. P. 100115-100118.
6. Report: Brodhead Extent of Contamination Report, prepared by Barrett E. Borry, 9/11/81. P. 100119-100162.
7. Report: A Site Inspection of Brodhead Creek, Stroudsburg, PA, prepared by Ecology and Environment, Inc., 6/29/82. P. 100163-100490.
8. Site Safety Plan, prepared by Ecology and Environment, Inc., 8/31/82. P. 100491-100500.
9. Memorandum to Mr. Robin Aiken, U.S. EPA, from Ms. Veronica Wancho O'Donnell, Ecology and Environment, Inc., re: Discharge from Redmond Manufacturing into Brodhead Creek, 11/23/82. P. 100501-100501.

* Administrative Record File available 12/12/90, updated 2/14/91, 6/10/91, 8/7/91, 8/23/94 and 11/6/97.

10. Report: Brodhead Creek Drilling Program, prepared by Ecology and Environment, Inc., 12/30/82.
P. 100502-100707.

* Administrative Record File available 12/12/90, updated 2/14/91, 6/10/91, 8/7/91, 8/23/94 and 11/6/97.

II. REMEDIAL ENFORCEMENT PLANNING

1. Consent Order and Agreement, In the Matter Of:
Brodhead Creek Superfund Site, Pennsylvania Power and
Light Company, and Union Gas Company, 8/20/87.
P. 200001-200023.

Holland Thread Manufacturing

2. Letter to Mr. Ralph Matergia, Holland Thread
Manufacturing Company, Inc., from Mr. William A.
Sullivan, Jr., U.S. EPA, re: Request for response of
Potentially Responsible Parties (PRPs) willingness to
participate in voluntary corrective action, 3/18/82.
P. 200024-200025.
3. Letter to Holland Thread Manufacturing Company, from
Mr. Donald M. Becker, Pennsylvania Department of
Environmental Resources (PADER), re: Request for
response of PRPs willingness to participate in
voluntary corrective action, 4/14/86. P. 200026-
200027.

Lockwood Engineering Corporation

4. Letter to Mr. Mark Wolfe, Lockwood Engineering
Corporation, from Mr. William A. Sullivan, Jr., U.S.
EPA, re: Possibility of EPA's spending public funds,
3/18/82. P. 200028-200029.
5. Letter to Lockwood Engineering from Mr. Donald M.
Becker, (PADER), re: Notification of NPL status,
4/14/86. P. 200030-200031.

Pennsylvania Power & Light (PP&L)

6. Notes of interview with Mr. Howard Lee, Stroudsburg
Coal Tar Investigation, prepared by J.F. Villaume,
6/9/81. P. 200032-200033.
7. Letter to Mr. Edward M. Nagel, Pennsylvania Power &
Light Company, from Mr. William A. Sullivan, Jr., U.S.
EPA, re: Request for response of PRPs willingness to
participate in voluntary corrective action, 3/18/82.
P. 200034-200035.

8. Letter to Mr. Gene Gockley, Pennsylvania Power and Light Company, from J.E. Godfrey, PADER, re: Final Work Plan, 2/14/86. P. 200036-200182. The Work Plan is attached.
9. Letter to Mr. Gockley, Pennsylvania Power and Light Company, from J.E. Godfrey, PADER, re: Agreement to sponsor meeting, 3/3/86. P. 200183-200183.
10. Letter to Mr. J. Kozlosky, PADER, from Mr. Gene H. Gockley, Pennsylvania Power & Light Company, re: Agreement to undertake the RI/FS, 4/11/86. P. 200184-200184.

Penn Fuel Gas, Inc.

11. Letter to Mr. John Ware, Penn Fuel Gas, Inc., from Mr. William A. Sullivan, Jr., U.S. EPA, re: Request for response of PRPs willingness to participate in voluntary corrective action, 3/18/82. P. 200185-200186.

Union Gas Co.

12. Letter to Mr. Rae Cornwall, Union Gas Company, from Mr. William A. Sullivan, Jr., U.S. EPA, re: Request for response of PRPs willingness to participate in voluntary corrective action, 3/18/82. P. 200187-200188.
13. Letter to Mr. Nicholas DeBenedictis, PADER, from Mr. Marc G. Brecher, Pennsylvania Office of the Attorney General, re: Hazardous waste clean-up of Brodhead Creek, 1/25/85. P. 200189-200191.
14. Letter to Union Gas Company from J.E. Godfrey, PADER, re: Final Work Plan, 2/14/86. P. 200192-200193.

Update Material

15. Letter to Mr. Robert Abdullah, PADER, from Ms. Lourdes del Carmen Rodriguez, U.S. EPA, re: Negotiations with PRPs for the performance of the Remedial Design and Remedial Action, 3/7/91. P. 200194-200194.

III. REMEDIAL RESPONSE PLANNING

1. Report: Remedial Action Master Plan, Brodhead Creek Site, Stroudsburg, Monroe County, Pennsylvania, prepared by AEPCO, Inc., 10/83. P. 300001-300195.
2. Report: Case Studies 1-23: Remedial Response at Hazardous Waste Sites, prepared by U.S. EPA, 3/84. P. 300196-300246.
3. Report: Evaluation of Stream Morphology and Aquatic Biological Data Related to the Union Gas Site on Brodhead Creek in Monroe County, Pennsylvania, prepared by Energy & Environmental Management, Inc., 7/31/84. P. 300247-300254.
4. Letter to Mr. Mark Carmon, PADER, from Mr. Robert A. Swift, Kohn, Savett, Marion & Graf, re: Grounds for Union Gas Company's opposition to RI/FS Work Plan, 6/5/85. P. 300255-300287. A report entitled Remarks for the Public Record Concerning Streams Morphology and Aquatic Biological Data Related to the Union Gas Site on Brodhead Creek in Monroe County, Pennsylvania is attached.
5. Report: Brodhead Creek Site, Remedial Investigation/Feasibility Study, Final Work Plan, prepared by PADER, 1/86. P. 300288-300340.
6. Report: Technical Oversight Work Plan for Brodhead Creek Site, Stroudsburg, Pennsylvania, Volume I, prepared by Camp, Dresser & McKee, Inc., 6/86. P. 300341-300378.
7. Memorandum to Ms. Patricia Tan, U.S. EPA, from Mr. Nels Barrett, U.S. EPA, re: November 14, 1986 site visit, 12/2/86. P. 300379-300382. Four photos are attached.
8. Report: Site Operations Plan for the Remedial Investigation of the Brodhead Creek Site, prepared by Environmental Resources Management, 10/87. P. 300383-300534.
9. Report: Trip Report, Brodhead Creek, Site Visit Monroe County, Pennsylvania, prepared by CDM Federal Programs Corporation, 4/8/88. P. 300535-300543.
10. Report: September 1988 Monthly Summary, Remedial Investigation Oversight, Brodhead Creek Site,

Stroudsburg, Pennsylvania, prepared by Versar, Inc., 10/14/88. P. 300544-300613.

11. Letter to Mr. John Mellow, PADER, from Mr. Michael F. Basta, Pennsylvania Power & Light Company, re: Transmittal of QA/QC validated chemical data, 10/27/88. P. 300614-300628. The data is attached.
12. Report: October Monthly Summary Report for the Remedial Investigation/Feasibility Study (RI/FS) at the Brodhead Creek Site, Stroudsburg, Pennsylvania, prepared by CDM Federal Programs Corporation, 11/21/88. P. 300629-300733. A transmittal letter is attached.
13. Report: November Monthly Report, Remedial Investigation Oversight at the Brodhead Creek Site, Stroudsburg, Pennsylvania, prepared by CDM Federal Programs Corporation, 12/14/88. P. 300734-300750.
14. Report: December Monthly Summary Report for the Remedial Investigation/Feasibility Study (RI/FS), Brodhead Creek Site, Stroudsburg, Pennsylvania, prepared by CDM Federal Programs Corporation, 1/16/89. P. 300751-300798.
15. Preliminary Health Assessment for Brodhead Creek, Stroudsburg, Pennsylvania, prepared by Agency for Toxic Substances and Diseases Registry (ATSDR), 1/20/89. P. 300799-300802.
16. Letter to Ms. Patricia Tan, U.S. EPA, from Mr. James W. Geiling, Pennsylvania Power & Light Company, re: Request to eliminate sampling and analysis of the surface waters, 2/10/89. P. 300803-300807. Four pages of samples and analyses are attached.
17. Letter to Mr. James W. Geiling, Pennsylvania Power & Light Company, from Mr. Robert K. Lewis, PADER, re: Request to eliminate mussel sampling, 4/7/89. P. 300808-300808.
18. Letter to Mr. Robert K. Lewis, PADER, from Mr. Michael F. Basta, Pennsylvania Power & Light Company, re: Follow-up and response to April 7th letter concerning the request to eliminate mussel sampling, 5/8/89. P. 300809-300809.
19. Letter to Mr. Michael F. Basta, Pennsylvania Power &

Light Company, from Mr. Robert K. Lewis, PADER, re:
Request to eliminate 3rd round of surface water
sampling, 5/22/89. P. 300810-300810.

20. Report: Letter Report, Oversight and Split Sampling, Broadhead [sic] Creek Site, Stroudsburg, Pennsylvania, prepared by CDM Federal Programs Corporation, 6/21/89. P. 300811-300833. A transmittal letter is attached.
21. Report: May Monthly Summary Report for the Remedial Investigation/Feasibility Study (RI/FS) at the Brodhead Creek Site, Stroudsburg, Pennsylvania, prepared by CDM Federal Programs Corporation, 6/23/89. P. 300834-300859.
22. Report: Brodhead Creek Site, Final Remedial Investigation Report, prepared by Environmental Resources Management, Inc., 9/25/90. P. 300860-301376.
23. Report: Risk Assessment, Brodhead Creek Site, Stroudsburg, Pennsylvania, 9/25/90. P. 301377-301779.
24. Report: Brodhead Creek, Feasibility Study, prepared by Environmental Resources Management, Inc., 1/91. P. 301780-302171.
25. Proposed Remedial Action Plan, Brodhead Creek Site, Borough of Stroudsburg, Monroe County, Pennsylvania, prepared by U.S. EPA, 2/14/91. P. 302172-302192.
26. Report: Annual Progress Retained, Contained Recovery of Oily Wastes (CROW), prepared by Western Research Institute, 6/89. P. 302193-302231.
27. Letter to Mr. Robert K. Lewis, PADER, and Mr. John Banks, U.S. EPA, from Mr. James W. Geiling, Pennsylvania Power & Light Company, re: Transmittal of the final Feasibility Study, 2/1/91. P. 302232-302233.
28. Letter to Mr. Kurt W. Carr, Pennsylvania Historical and Museum Commission, from Mr. John Banks, U.S. EPA, re: Request for information on historical or archaeological properties in the area of Brodhead Creek, 3/8/91. P. 302234-302235. A topographical map is attached.
29. Letter to Mr. John Banks, U.S. EPA, from Mr. Kurt W. Carr, Pennsylvania Historical and Museum Commission, re: Any historical or archaeological properties

located at or near the Brodhead Creek area, 3/27/91.
P. 302236-302236.

30. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Dawn A. Ioven, U.S. EPA, re: Certification of the PRP Risk Assessment, 4/3/91. P. 302237-302237.
31. Report: Contained Recovery of Oily Wastes (CROW), Final Report, prepared by Western Research Institute, (undated). P. 302238-302303.
32. Record of Decision, Brodhead Creek Site, Declaration, 3/29/91. P. 302304-302402. A transmittal memorandum is attached.

July 19, 1994, Explanation of Significant Differences for OU-1

33. Letter to Ms. Lourdes del Carmen Rodrigues, U.S. EPA, from Arundhati Khanwalkar, Pennsylvania Power & Light Company, re: Summary of issues discussed at an April 30, 1991 meeting, 6/14/91. P. 302403-302404.
34. Letter to Mr. James F. Villaume, Pennsylvania Power & Light Company, from Mr. Alfred P. Leuschner, Retec Remediation Technologies, Inc., re: Review of the water quality data, 7/11/91. P. 302405-302408. Two tables entitled, Produced Water After Soil/Water Separation For Hot Water Flush and Coldwater Flush and Groundwater Data for RCC-C, are attached.
35. Letter to Mr. John Banks, U.S. EPA, from Ms. Lynn I. Ratzell, Pennsylvania Power & Light Company, re: Transmittal of a graph, 11/18/93. P. 302409-302411. A letter dated November 15, 1993 concerning the graph and a graph entitled, Expected Cumulative Recovery Curve, are attached.
36. Letter to Mr. John Banks, U.S. EPA, from Mr. Lyle A. Johnson, Jr., Western Research Institute, re: Transmittal of comments concerning the design for the remediation project at the Brodhead Creek Site, 12/20/93. P. 302412-403418. The comments and a graph are attached.
37. Facsimile transmittal sheet to Mr. John Banks, U.S. EPA, from Mr. Al Leuschner, Retec Remediation

Technologies, Inc., re: Transmittal of Lancaster Laboratories, Inc. Analytical Report, 1/24/94. P. 302419-302423. The report is attached.

38. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Cynthia E. Caporale, U.S. EPA, re: Transmittal of the organic data validation report, 2/25/94. P. 302424-302456. The report is attached.
39. CLP Regional/Laboratory Communication System Telephone Record Log to Mr. Steve Wilding and Mr. Skip Weisberg, U.S. EPA, from Mr. John Marrone and Ms. Meg Doland, RECNY Laboratory, re: Discussion on samples and procedures, 3/4/94. P. 302457-302457.
40. CLP Regional/Laboratory Communication System Telephone Record Log to Mr. Russ Alred, Silver Laboratory, from Mr. Roger Nowakowski, SMO Laboratory, re: Summary of sampling issues, 3/10/94. P. 302458-302458.
41. Facsimile Transmission memo to Mr. John Banks, U.S. EPA, from Mr. Jerry Zak, Atlantic Environmental Services, Inc., re: Transmittal of a Field Trip Report, 3/11/94. P. 302459-302461. The report is attached.
42. Letter to Mr. Murray Rosenberg, CH₂M Hill/PHL, from Ms. Wanda L. Hall, Quality Analytical Laboratories, Inc., re: Transmittal of analytical results and associated quality control data, 3/14/94. P. 302462-302468. The results are attached.
43. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Cynthia E. Caporale, U.S. EPA, re: Transmittal of the inorganic data validation report, 3/31/94. P. 302469-302504. The report is attached.
44. Memorandum to Mr. John Banks, U.S. EPA, from Shobha Boddu, Lockheed Environmental Systems and Technologies, Co., re: Results of samples exceeding the Toxicity Characteristic Leaching Procedures (TCLP) chemical health advisory limit, 4/13/94. P. 302505-302505.
45. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Cynthia E. Caporale, U.S. EPA, re: Transmittal of the inorganic data validation report, 4/13/94. P. 302506-302526. The report is attached.
46. Memorandum to Mr. John Banks, U.S. EPA, from Ms.

Cynthia E. Caporale, U.S. EPA, re: Transmittal of an inorganic data validation report, 4/22/94. P. 302527-302560. The report is attached.

47. Letter to Mr. John Banks, U.S. EPA, from Mr. Leonard Zelinka, PADER, re: Comments on the Explanation of Significant Differences (ESD) to the Record of Decision, 5/5/94. P. 302561-302561.
48. Letter to Mr. Leonard Zelinka, PADER, from Mr. John Banks, U.S. EPA, re: EPA's response to PADER's comments on the draft ESD, 5/9/94. P. 302562-302567. A letter dated July 11, 1991 concerning water quality data and two tables entitled, Summary of Analytical Results Produced Water After Soil/Water Separation for Hot Water Flush and Coldwater Flush and Groundwater Data for RCC-C, are attached.
49. Letter to Mr. John Banks, U.S. EPA, from Mr. James F. Villaume, Pennsylvania Power & Light Company, re: Transmittal of a tar sample analysis table, 5/13/94. P. 302568-302569. A table entitled, Validated TCLP Results Tar Sample-RCC-C Center Well, Brodhead Creek-Stroudsburg, Pennsylvania, is attached.
50. Letter to Mr. John Banks, U.S. EPA, from Mr. Leonard Zelinka, PADER, re: PADER's response to EPA's comments on the ESD, 5/16/94. P. 302570-302570.
51. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Cynthia E. Caporale, U.S. EPA, re: Transmittal of the organic data validation report, 5/23/94. P. 302571-302628. The report is attached.
52. Letter to Mr. Peter H. Kostmayer, U.S. EPA, from Mr. Ed Shoener, PADER, re: PADER concurring with the ESD to the ROD for OU1, 6/7/94. P. 302629-302630. An interoffice route slip is attached.
53. Explanation of Significant Differences, Brodhead Creek Superfund Site, 7/19/94. P. 302631-302735. A memorandum dated July 15, 1994 concerning the transmittal of the ESD is attached.

September 30, 1997, Explanation of Significant Differences
for OU-1

54. Report: MW-2 Area Work Plan, prepared by Remediation Technologies (RETEC), Inc., 12/95. P. 302736-302746. A December 11, 1995, facsimile transmittal sheet to Mr. John Banks, U.S. EPA, from Mr. Mark Moeller, RETEC, is attached.
55. Report: MW-2 Area Work Plan, prepared by RETEC, 1/96. P. 302747-302759.
56. Letter to Mr. John Banks, U.S. EPA, from Mr. Lynn Ratzell, Pennsylvania Power & Light Company (PP&L), re: Transmittal of the revised work plan for the MW-2 Area at the site, 2/28/96. P. 302760-302760.
57. Table, "Cost Estimate to Perform CROW at the MW-2 Area Brodhead Creek Site, Stroudsburg, PA," 6/19/96. P. 302761-302762. A June 27, 1996, facsimile transmittal sheet to Mr. John Banks, U.S. EPA, from Mr. Mark Moeller, RETEC, is attached.
58. Letter to Mr. John Banks, U.S. EPA, from Mark Moeller, RETEC, re: Response to the EPA request for an estimated cost of the removal action at the MW-2 area at the site, 7/25/96. P. 302763-302764. A July 25, 1996, facsimile transmittal sheet to Mr. John Banks, U.S. EPA, from Mr. Mark Moeller, RETEC, is attached.
59. Memorandum to Mr. John Banks, U.S. EPA, from Mr. Murray Rosenberg, CH2M Hill, re: Oversight Trip Report of the construction closeout site inspection conducted on March 7, 1997, 3/18/97. P. 302765-302766.
60. Letter to Mr. James Villaume, PP&L, from Mr. Jason Gerrish, RETEC, re: Transmittal of a remedial action memorandum for discontinuation of DNAPL removal for the MW-2 wells at the site, 6/10/97. P. 302767-302775. The June 16, 1997, remedial action memorandum to Mr. Jim Villaume, PP&L, from Mr. Jason Gerrish, RETEC, is

attached.

61. Letter to Mr. John Banks, U.S. EPA, from Mr. Harold Brundage, Environmental Research and Consulting, Inc. (ERC), re: Environmental Monitoring program preliminary results of sediment screening at the site, 6/23/97. P. 302776-302781. References, a table, "Location and description of sediment samples collected at the Brodhead Creek site on June 4, 1997," and a figure, "Sediment sample locations in and adjacent to Brodhead Creek sampled on June 4, 1997," are attached.¹
62. Letter to Mr. John Banks, U.S. EPA, from Mr. Harold Brundage, ERC, re: Transmittal of analytical reports for the sediment samples collected in Brodhead Creek and the floodgate channel on June 4, 1997, 7/2/97. P. 302782-302873. The June 27, 1997, Analysis Report, prepared by Lancaster Laboratories, is attached.
63. Report: Organic Data Validation Report, Soil Samples Collected June 4, 1997, Broadhead Creek, Stroudsburg PA, prepared by Acres International Corporation, 7/97. P. 302874-302958. An August 6, 1997, transmittal letter to Mr. John Banks, U.S. EPA, from Mr. Harold M. Brundage, ERC, is attached.
64. Memorandum to Mr. John Banks, U.S. EPA, from Ms. Barbara Okorn, U.S. EPA, re: Review comments for sediment data and long term monitoring, 8/12/97. P. 302959-302961.
65. Letter to Mr. John Banks, U.S. EPA, from Mr. Leonard

¹ This administrative record contains only the sediment sampling report and data validation reports for 1997, and review by EPA's Biological Technical Assistance Group (BTAG) of these reports. EPA has other sediment data for prior years which is available for review by contacting the EPA Remedial Project Manager.

Zelinka, PADEP, re: Notification that PADEP has reviewed the September 12, 1997, final draft Preliminary Close Out Report (PCOR) and the September 15, 1997, 9/23/97. P. 302962-302962. EPA comments to PP&L regarding MW-2 letter report.

66. Letter to Mr. Abraham Ferdas, U.S. EPA, from Mr. Joseph Brogna, PADEP, re: Brodhead Creek OU-1, Explanation of Significant Differences (ESD) concurrence, 9/29/97. P. 302963-302963.
67. Letter to Mr. James Villaume, PP&L, from Mr. John Banks, U.S. EPA, re: Comments to the RETEC memorandum dated June 10, 1997, concerning the discontinuation of DNAPL removal from MW-2 at the site, 9/30/97. P. 302964-302966.
68. Explanation of Significant Differences, Brodhead Creek Superfund Site, 9/30/97. P. 302967-302974. The July 19, 1994, ESD and March 29, 1991, ROD are attached.²

² The Attachments to this entry are duplicates of documents previously included. Specifically, the July 19, 1994, ESD and the July 29, 1991, ROD, correspond to items numbered 53 and 32 in Section III of this index. These duplicate documents, therefore, show page numbers which are out of sequence.

IV. REMOVAL RESPONSE PROJECTS

1. Water or Waste Quality Report, prepared by PADER, 3/4/81-4/21/82. P. 400001-400101.
2. Memorandum to Mr. Tom Massey, U.S. EPA, from Mr. Roger Mayer, U.S. EPA, re: Coal tar problem, 3/12/81. P. 400102-400102.
3. Letter to Mr. Barrett Borry, Department of Environmental Resources [sic], from Mr. Tom Eveland, Monroe Community Conservation District, re: Data concerning erosion, 3/25/81. P. 400103-400103.
4. Memorandum to Mr. Merle H. Ryan, Pennsylvania Department of General Services (PADGS), from Mr. Richard Inhoffer, PADGS, re: Contamination problem, 3/26/81. P. 400104-400105.
5. Memorandum to Mr. Tom Massey, U.S. EPA, from Mr. Barrett Borry, PADER, re: Industrial waste and coal tar pollution, 3/31/81. P. 400106-400110. Three Water or Waste Quality Reports are attached.
6. Memorandum to Mr. Tom Massey, U.S. EPA, from Mr. Barrett E. Borry, PADER, re: Industrial waste and coal tar pollution, 3/31/81. P. 400111-400121. A memorandum regarding the coal tar problem, a map of flood-prone areas, and photographs are attached.
7. Report: Federal On-Scene Coordinators Report, Major Pollution Incident, Stroudsburg, PA, prepared by U.S. EPA, 3/81-11/81. P. 400122-400486.
8. Brodhead Test Pits #1 - #23, 4/10/81-4/16/81. P. 400487-400489.
9. Letter to Mr. Bradley A. Wise, Pennsylvania Power and Light, from Mr. Bipin Patel, Roy F. Weston, Inc. re: Analytical results on organic and heavy metal samples, 5/5/81. P. 400490-400497. The results are attached.
10. Sample Analyses, 6/4/81 - 7/31/81. P. 400498-400510.
11. Report: Pennsylvania Power & Light Stroudsburg Contamination Study, prepared by TRC Environmental Consultants, Inc., 7/81. P. 400511-400553.

12. Safety Plan, prepared by Ecology and Environment, Inc., 8/4/81. P. 400554-400555.
13. Letter to Mr. Lawrence Pawlush, PADER, from Mr. Bradley A. Wise, Pennsylvania Power & Light Company, re: Laboratory results and comments on the Stroudsburg Coal Tar Site, 8/14/81. P. 400556-400602. The results are attached.
14. Letter to Mr. Thomas Massey, U.S. EPA, from Mr. Allen Weichman, Monroe County Conservation District, re: Concern over the possibility of winter flooding at the Brodhead Creek, 8/20/81. P. 400603-400604.
15. Report: Pennsylvania Power & Light, Stroudsburg Contamination Study, Technical Control Recommendation, prepared by TRC Environmental Consultants, Inc., 9/81. P. 400605-400617.
16. Letter to Mr. Ken McGill, Ecology and Environment, Inc., from Mr. Andrew J. Drozda, J.E. Brenneman Company, re: Analysis of leachate samples, 9/24/81. P. 400618-400619.
17. Memorandum to Mr. Thomas I. Massey, U.S. EPA, from Royal J. Nadeau, U.S. EPA, re: Significance of toxicity tests performed at Stroudsburg, PA coal tar seep, 11/4/81. P. 400620-400625. A handdrawn flow record is attached.
18. Report: Federal On-Scene Coordinator's Report, Major Pollution Incident, Stroudsburg, PA, CERCLA Activities, prepared by Ecology and Environment, Inc., 11/81. P. 400626-400735.
19. Letter to Mr. Thomas I. Massey, U.S. EPA, from Mr. James F. Villaume, Pennsylvania Power & Light Company, re: Final Phase II Field Investigation Report, 12/18/81. P. 400736-400757. The report is attached.
20. Report: Federal On-Scene Coordinator's Report, Major Pollution Incident, Stroudsburg, PA, CERCLA Activities, prepared by U.S. EPA, 11/81-1/82. P. 400758-400870. A transmittal letter is attached.
21. Memorandum to Mr. Walter Burkhart, PADER, from Mr. Craig W. Billingsley, PADER, re: Toxicity of coal tar

- discharge to rainbow trout, (undated).
P. 400871-400871.
22. Memorandum to Mr. Walter Burkhardt, PADER, from Mr. Craig W. Billingsley, PADER, re: Toxicity of coal tar discharge to rainbow trout, (undated).
P. 400872-400872.
23. Report: Historical Background of Coal Tar Pollution Site, Brodhead Creek, Stroudsburg, PA, (author not cited), (undated). P. 400873-400876.
24. Amended Fund Authorization Report, (undated).
P. 400877-400882. The Staged Planned Removal Alternative for Brodhead Creek is attached.
25. Fund Authorization Report, (undated). P. 400883-400885.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

1. Letter to Mr. Craig Billingsley, Pennsylvania Fish Commission, from Mr. Jim Bashline, Field & Stream, re: Historical significance of the Brodhead Creek, 3/23/81. P. 500001-500002.
2. Letter to Mr. Larry Comunale, Borough of East Stroudsburg, from Mr. Thomas I. Massey, U.S. EPA, re: Notice of federal interest in a pollution incident, 7/7/81. P. 500003-500004.
3. Letter to Mr. Nicholas DeBenedictis, U.S. EPA, from Rep. Joseph M. McDade, House of Representatives, re: Request for a status report of the Brodhead Creek cleanup, 7/22/81. P. 500005-500005.
4. Letter to Mr. Thomas Massey, U.S. EPA, from Mr. Patrick J. Calpin, Pocono Forestry Association, re: Support of the use of Superfund monies for Brodhead Creek cleanup, 7/28/81. P. 500006-500006.
5. Letter to Mr. Thomas Massey, U.S. EPA, from Ms. Nancy Shukaitis, Monroe County Board of Commissioners, re: Formal certification of the pollution problem at Brodhead Creek, 7/29/81. P. 500007-500007.
6. Letter to Mr. Thomas Massey U.S. EPA, from Mr. Steven Crane, Monroe County Office of Emergency Services, re: Support of the cleanup operation at Brodhead Creek, 7/30/81. P. 500008-500008.
7. Letter to Mr. Thomas Massey, U.S. EPA, from Mr. Edmund G. Flynn, Bensinger & Pentz, re: Support of Superfund cleanup at the site, 7/30/81. P. 500009-500009.
8. Letter to Mr. Thomas Massey, U.S. EPA, from Dr. Joel S. Samuelson, Pocono Allergy & Dermatology Associates, re: Support of a cleanup operation at the site, 7/30/81. P. 500010-500010.
9. Letter to Mr. Thomas I. Massey, U.S. EPA, from Dr. James M. Fox, Pennsylvania Department of Health, re: Health hazards concerning the site, 7/30/81. P. 500011-500011.
10. Letter to the Honorable Joseph M. McDade, House of

Representatives, from Mr. Nicholas DeBenedictis, U.S. EPA, re: Response to request for a status report, 8/11/81. P. 500012-500015. A routing slip and a letter regarding the coal tar pollution of Brodhead Creek are attached.

11. Letter to the Honorable Joseph M. McDade, House of Representatives, from Mr. Ralph W. Abele, Pennsylvania Fish Commission, re: Request for support of cleanup efforts at the site, 8/19/81. P. 500016-500016.
12. Letter to Mr. Thomas Massey, U.S. EPA, from Mr. Allen Weichman, Monroe County Conservation District, re: Explanation of a chart depicting the Brodhead Creek's flow characteristics, 8/20/81. P. 500017-500019. A copy of the chart is attached.
13. Letter to the Honorable William B. Middendorf, PADER, from Mr. Ralph W. Abele, Pennsylvania Fish Commission, re: Concerns about the site pollution, 8/28/81. P. 500020-500021.
14. Letter to Ms. Anne Gorsuch, U.S. EPA, from Ms. Ann McManus, League of Women Voters of Monroe County, re: Coal tar deposits seeping into the Brodhead Creek and request for monetary support to alleviate the hazard, 9/20/81. P. 500022-500023. A transmittal memorandum is attached.
15. Letter to Ms. Anna [sic] Gorsuch, U.S. EPA, from Ms. Nancy Shukaitis, Mr. Jesse D. Pierson, and Mr. Thomas R. Joyce, Monroe County Commissioner's Office, re: Concern of coal tar deposits and request for monetary support for site clean-up, 9/24/81. P. 500024-500027. A transmittal memorandum and a table listing the percentage of carcinogens present are attached.
16. Letter to Mrs. [sic] Anne M. Gorsuch, U.S. EPA, from Mr. Russell Kowalyshyn, House of Representatives, re: Request for continued funding, 9/25/81. P. 500028-500029. A transmittal memorandum is attached.
17. Letter to Mr. Russell Kowalyshyn, Pennsylvania House of Representatives, from Mr. Michael B. Cook, re: Response to request for continued EPA funding at the site, 10/28/81. P. 500030-500031. A copy of the request is attached.
18. Letter to Ms. Nancy Shukaitis, Monroe County Board of

Commissioners, from Mr. Michael B. Cook, re: Response to request for Superfund monies for site cleanup, 10/28/81. P. 500032-500035. A copy of the request and a table listing the percentage of carcinogens present are attached.

19. Press Release from U.S. EPA Environmental News, entitled "Joint Release by EPA and PADER for Release 1 PM, November 4, 1981, Funding Announced for Brodhead Creek." 11/4/81. P. 500036-500040. A design of the proposed slurry wall and a fact sheet are attached.
20. Community Relations Plan for Remedial Action, Brodhead Creek Superfund Site, Stroudsburg Borough, Monroe County, Pennsylvania, (undated). P. 500041-500055.
21. Press Release from Pennsylvania Power & Light Company, re: Plans to conduct studies to determine extent of subsurface contamination, (undated). P. 500056-500057.
22. Community Relations Plan for the Brodhead Creek Superfund Site, prepared by Dynamac Corporation, 2/15/91. P. 500058-500093.
23. Letter to Mr. John Banks, U.S. EPA, from Mr. Robert K. Lewis, PADER, re: Review of the draft Proposed Remedial Action Plan, 2/13/91. P. 500094-500097.
24. Public Notice, Brodhead Creek Superfund Site, 2/15/91. P. 500098-500098.
25. Transcript of Public Meeting, Brodhead Creek Superfund Site, 2/27/91. P. 500099-500190.
26. Letter to Mr. John Banks, U.S. EPA, from Mr. Ralph A. Matergia, Matergia and Dunn, re: Borough of Stroudsburg comments on the proposed plan, 3/8/91. P. 500191-500193. An envelope is attached.
27. Letter to Mr. John Banks, U.S. EPA, from Mr. David E. Spotts, Pennsylvania Fish Commission, re: Comments on aquatic life found within Brodhead Creek, 3/12/91. P. 500194-500235. A water quality standards review and an envelope are attached.
28. Letter to Mr. John Banks, U.S. EPA, from Ms. Joanne Viola, re: Concerns with the proposed plan, 3/12/91. P. 500236-500238. An envelope is attached.

29. Letter to Mr. John Banks, U.S. EPA, from Ms. Edith D. Stevens, Brodhead Watershed Association, re: Comments on the proposed plan, 3/17/91. P. 500239-500240.
30. Letter to Mr. John Banks, U.S. EPA, from Arundhati Khanwalkar, Pennsylvania Power & Light company, re: Comments on the proposed plan, 3/18/91. P. 500241-500252. The comments, Figure 3-15, Conceptual Ground Water Flow Paths Cross Section C-C, and an envelope are attached.
31. Letter to Mr. John Banks, U.S. EPA, from Mr. Peter M. Dolinger, Union Gas Company, re: Request for extension of the comment period, 3/18/91. P. 500253-500263. An envelope and a transmittal slip are attached.
32. Letter to Ms. Francesca DiCosmo, U.S. EPA, from Mr. John Woodling, The Monroe County Planning Commission, re: Comments on the proposed plan 3/18/91. P. 500264-500266. The comments and an envelope are attached.
33. Letter to Ms. Francesca DiCosmo, U.S. EPA, from Ms. H. Orianna Roth, Monroe County Conservation District, re: Comments on the proposed plan, 3/18/91. P. 500267-500269. An envelope is attached.
34. Mr. Peter M. Dolinger, Union Gas Company, from Mr. John Banks, U.S. EPA, re: Request for extension of comment period, 3/20/91. P. 500270-500270.
35. Letter to Mr. John Banks, U.S. EPA, from Mr. Peter M. Dolinger, Union Gas Company, re: Additional comments on the proposed plan, 3/21/91. P. 500271-500273. A facsimile cover sheet is attached.
36. Letter to Mr. Peter Dolinger, Union Gas Company, from Mr. John Banks, U.S. EPA, re: Additional comments on the proposed plan, 4/16/91. P. 500274-500275.
37. Letter to Ms. Francesca DiCosmo, U.S. EPA, from Mr. Donald L. Baylor, re: Comments on the proposed plan, (undated). P. 500276-500277.

SITE SPECIFIC GUIDANCE DOCUMENTS

1. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, prepared by OSWER/OERR, 10/1/88.
OSWER #9355.3-01.
2. Handbook Remedial Action at Waste Disposal Sites (Revised), prepared by ORD/HWERL and OSWER/OERR, 10/1/88.
EPA-625/6-85/006.
3. CERCLA Compliance with Other Environmental Statutes, prepared by J.W. Porter, OSWER, 10/2/85.
Potentially Applicable or Relevant and Appropriate Requirements are attached.
OSWER #9234.0-2.
4. CERCLA Compliance with Other Laws Manual Draft Guidance, prepared by OERR, 8/8/88.
OSWER #9234.1-01.
5. Integrated Risk Information Systems (IRIS) (A Computer-Based Health Risk Information System Available Through E-Mail--Brochure on Access is Included), prepared by OHEA, (undated).
6. Superfund Exposure Assessment Manual, prepared by OERR, 4/1/88.
OSWER #9285.5-1.
7. Superfund Public Health Evaluation Manual, prepared by OERR and OSWER, 10/1/86.
OSWER #9285.4-1.